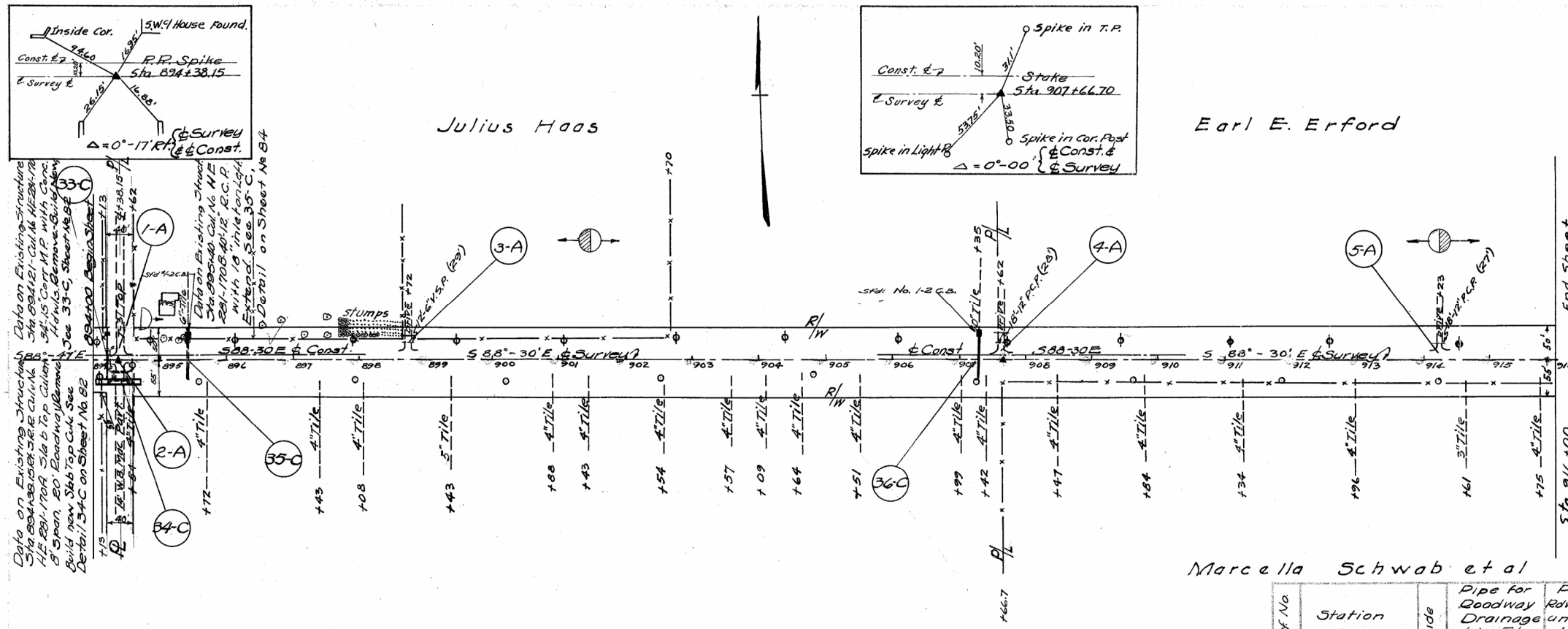
F. A. S. 20
10 OHIO F.A.S.-749-C(1) F.A.S.-749-A(2) 1940 104
HENRY COUNTY
S.H. 591 SEC. A, B & C.
WOOD COUNTY
S.H. 591 SEC. D & CUSTAR (PT.)



APPROACHES — "A"

Ref No.	Station	Side	Pipe for Drives Lin. Ft. 12"	Pipe Removed and Stored Lin. Ft. 6"	Pipe Removed and Stored Lin. Ft. 12"	Aggreg. for Traffic Bound Side Approach Cu. Yds. Drives	Remarks
1-A	894+38	Lt.					No Work Required
2-A	894+38	Rt.					No Work Required
3-A	898+72	Lt.	24	12		3	
4-A	907+62	Lt.	24		18	3	
5-A	914+23	Lt.			18	3	
			48	12	36	9	

STRUCTURES — "C"

Ref No.	Station	Type	Size	Remarks
33-C	894+20	Pipe Culvert	78' x 15"	See Detail on Sheet No. 82
34-C	894+38.15	Slab top culv. 3 Rd. Rt.	73 span - 30' Rdwy	" " " " " 82
35-C	895+40	Pipe Culvert	27' x 12" Extn.	" " " " " 84
36-C	907+35	Pipe Culvert	75' x 12"	" " " " " 84

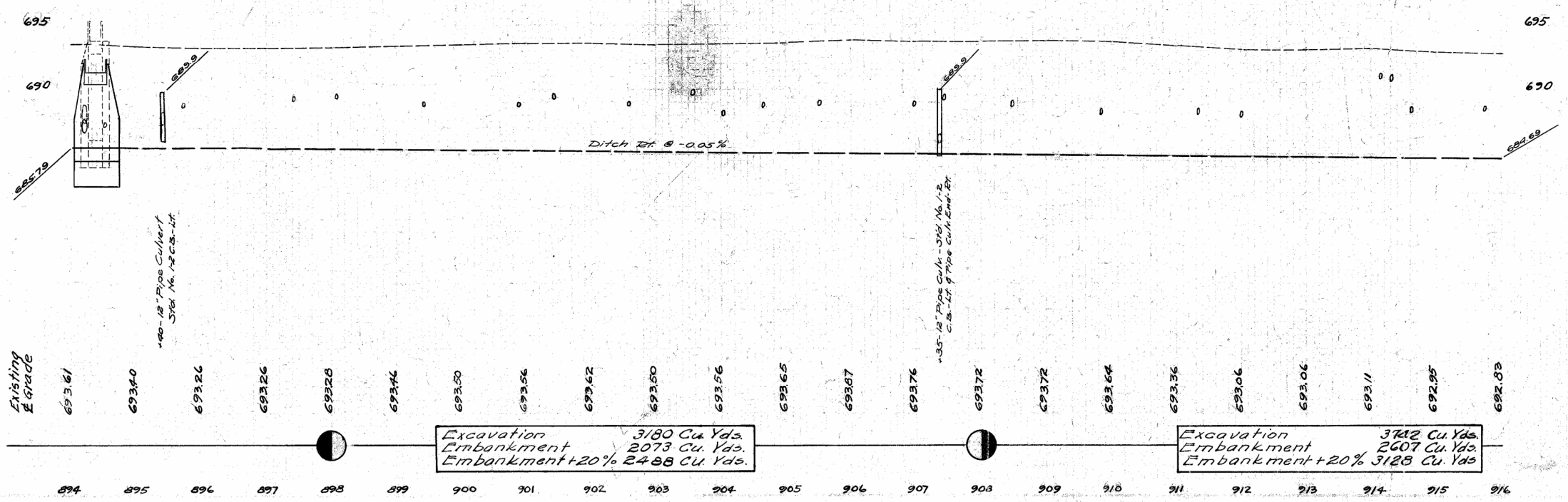
ROADWAY DRAINAGE — "D"

Ref No.	Station	Side	Pipe for Roadway Drainage Lin. Ft.	Pipe for Rdwy. Drainage under Drives Lin. Ft.	Pipe for Rdwy. Drainage Outlets Lin. Ft.	Std. Catch Basins Each

B.M. Sta. 894+26.5 Rt.
X on N.W. ℄ W. Bridge Rail
Elev. 695.85

B.M. Sta. 902+58 Rt.
Spike in Power Pole 31' Rt.
Elev. 691.96

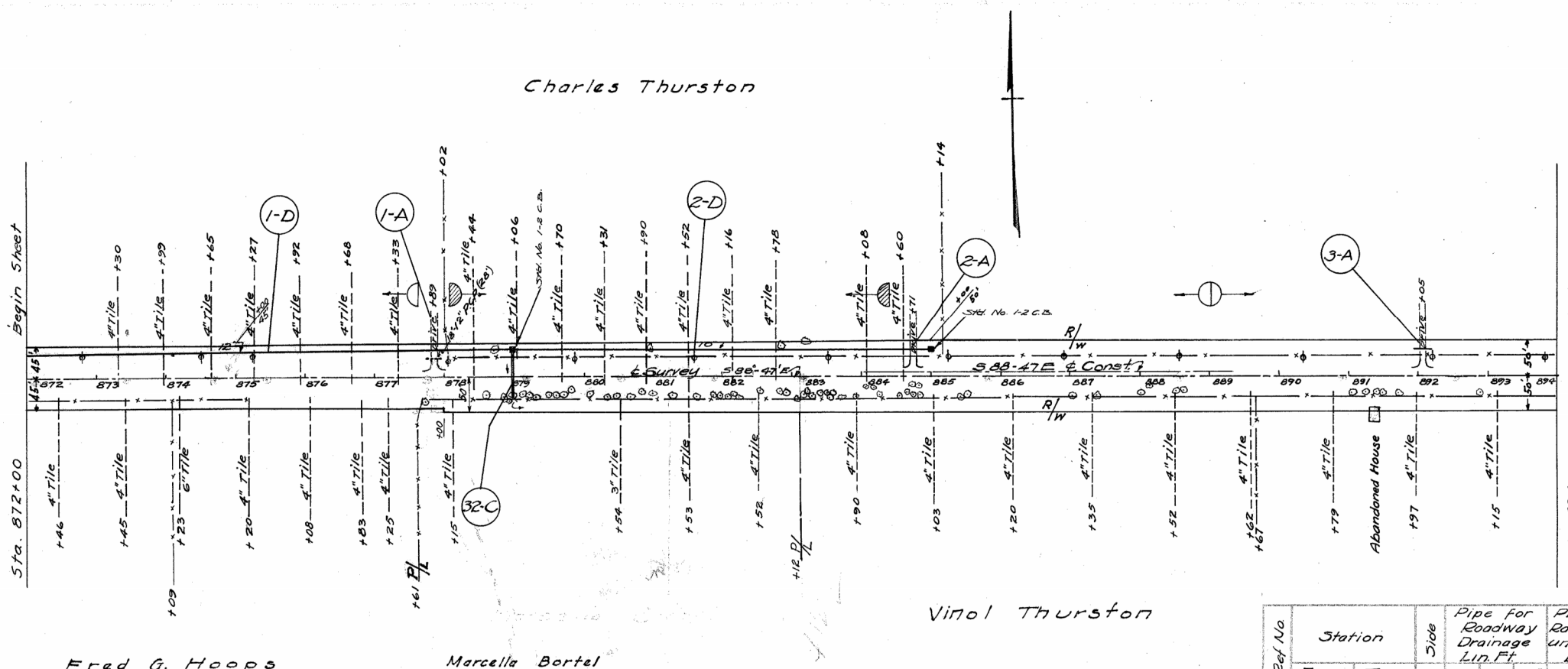
B.M. Sta. 911+83 Rt.
Spike in Power Pole 30 Rt.
Elev. 691.83



F.A.S. 19

10 OHIO F.A.S.-749-C(1) F.A.S.-749-A(2) 1940 104

HENRY COUNTY
S.H. 591 SEC. A, B & C.
WOOD COUNTY
S.H. 591 SEC. D & CUSTAR (PT.)



APPROACHES – "A"

Ref No	Station	Side	Pipe for Drives Lin. Ft 12"	Pipe Removed and Stored Lin. Ft 12"	Aggreg. for Traffic Bound Side Approaches Cu. Yds. Drives	Remarks
1-A	877+89	Lt.		18	3	
2-A	884+71	Lt.			3	
3-A	892+05	Lt.	24		3	
	Totals		24	18	9	

STRUCTURES – "C"

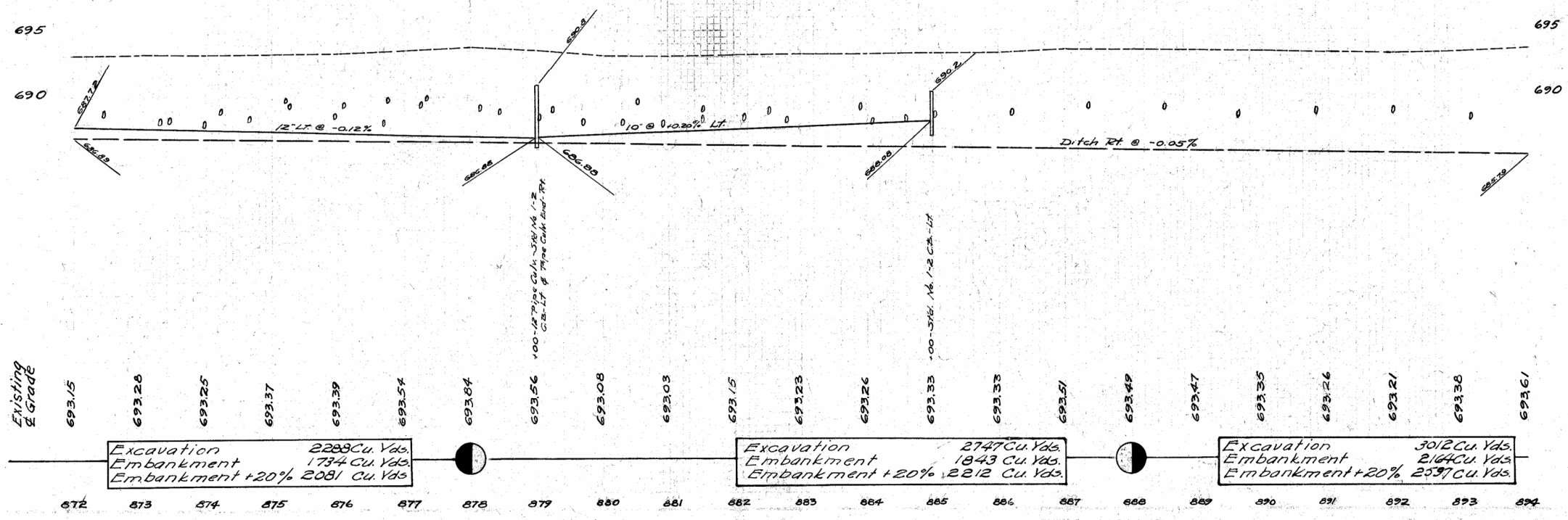
Ref No	Station	Type	Size	Remarks
32 C	879+00	Pipe Culvert	12" × 66'	See Detail on Sheet No 81

ROADWAY DRAINAGE "D"

Ref No	Station From	Station To	Side	Pipe for Roadway Drainage Lin. Ft. 10"	12"	Pipe for Rdwy. Drainage under Drives Lin. Ft. 10"	12"	Std. Catch Basins Each #1-2
1-D	872+00	879+00	Lt.		679		21	
2-D	879+00	885+00	Lt.	577		21		1
	Totals			577	679	21	21	1

B.M. Sta. 877+69 Rt.
Spike in 10" Hickory 32' Rt.
Elev. 692.86

B.M. Sta. 884+56 Lt.
Spike in 24" Oak 101' Lt.
Elev. 693.13



FED. RD. DIST. NO.	STATE	F.A.S. PROJECT	FISCAL YEAR
10	0410	FAS-749-C(1) FAS-749-P(4)	1940

82/104

HENRY COUNTY
SH.591 - SEC. A, B, & C
WOOD COUNTY
SH.591 SEC. D. & CUSTAR (PT)

STRUCTURE NO. 33-C
STATION 894+20

WORK REQUIRED

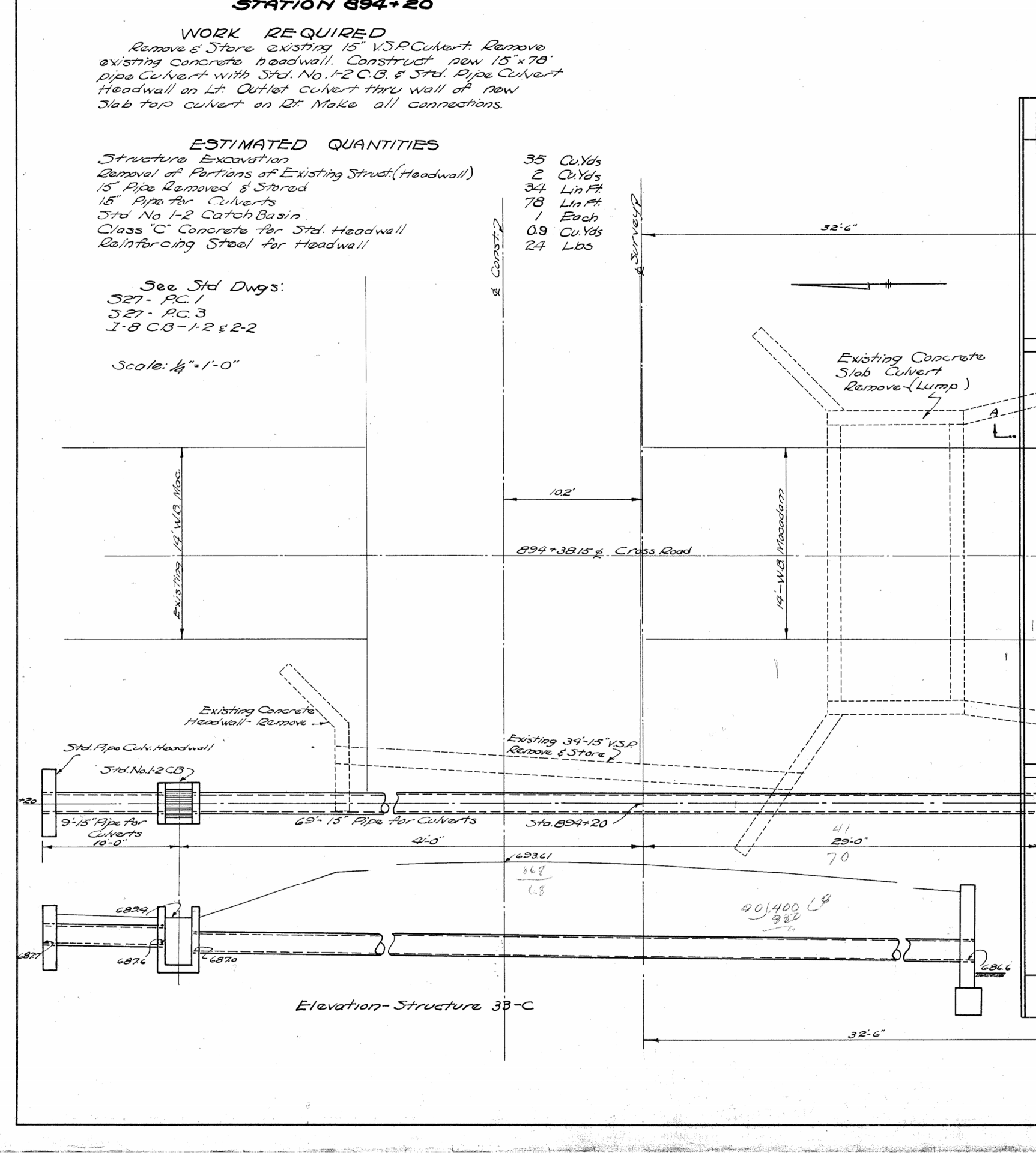
Remove & Store existing 15" V.S.P. Culvert. Remove existing Concrete headwall. Construct new 15"x78' pipe Culvert with Std. No. 1-2 C.B. & Std. Pipe Culvert Headwall on Lt. Outlet culvert thru wall of new Slab top culvert on Rt. Make all connections.

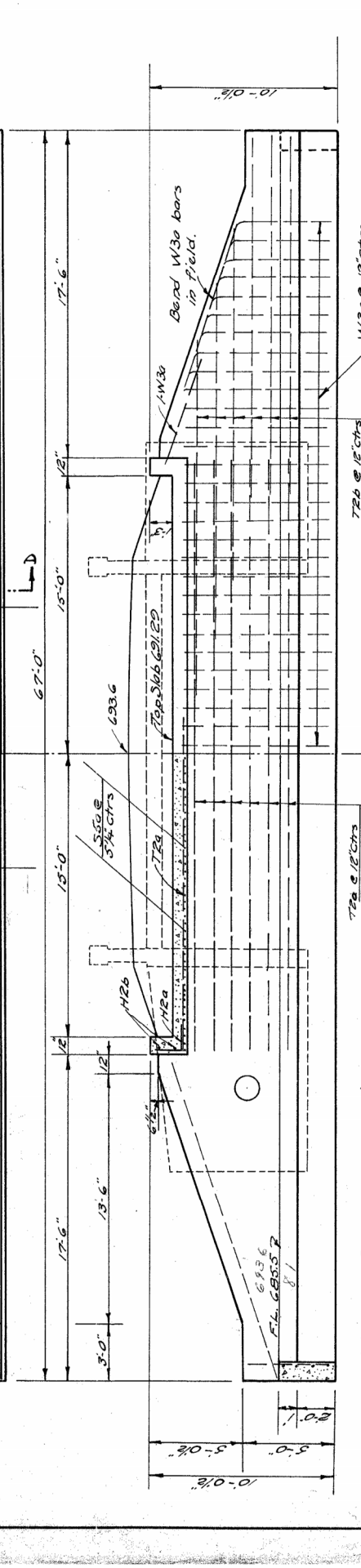
ESTIMATED QUANTITIES

Structure Excavation	35	Cu.Yds
Removal of Portions of Existing Struct.(Headwall)	2	Cu.Yds
15" Pipe Removed & Stored	34	Lin.Ft.
15" Pipe for Culverts	78	Lin.Ft.
Std No 1-2 Catch Basin	1	Each
Class "C" Concrete for Std. Headwall	0.9	Cu.Yds
Reinforcing Steel for Headwall	24	Lbs

See Std Dwgs:
527 - P.C. 1
527 - P.C. 3
1-8 C.B - 1-2 & 2-2

Scale: 1/4"=1'-0"





DATA ON EXISTING STRUCTURE

Type: Concrete Slab Side road Culvert
Span: 8'-0" Height: 5'8" Roadway: 21'-9"
Condition: Fair To be removed.
Area of Waterway: 46.4 Sq.Ft. which is over size for its drainage area of 600 acres

DATA ON PROPOSED STRUCTURE

Type: Concrete Slab Top Culvert
Span: 7'-0" Height: 5'-0" Roadway: 30'-0"

GENERAL NOTES

Lap T2a bars a minimum of 24"
Chamfer all exposed edges 3/4"
Embankment shall be placed symmetrically on both sides of the culvert and shall not be placed until after slab culvert is in place.

Payment for pavement removal on side road included in price paid for Removal of Existing Structure and for Structure Excav(Unclassified)

See Std Dwg. No. STC-34

REINFORCING STEEL LIST

Mark	Size	Spacing	Shape	Length	No.	Weight
S5a	3/4"ø	5 1/4" ctrs	Straight	8'-6"	74	945
T2a	1/2"ø	12"	Straight	31'-6"	19	400
T2b	1/2"ø	12"	Straight	19'-6"	24	313
H2a	1/2"ø	As Shown	Bent	3'-6"	16	37
H2b	1/2"ø	"	Straight	8'-6"	4	23
C2a	1/2"ø	"	Straight	16'-0"	2	21
C2b	1/2"ø	"	Straight	8'-0"	6	32
W3a	1/2"□	12" Ctrs	Straight	8'-0	120	816
		Total				2587
Rc2	1/2"ø	Replacement Steel		6'-0"	1	4
Rc3	1/2"□	"	"	6'-0"	1	5
Rc5	3/4"ø	"	"	7'-0"	1	11
Grand Total						2607

STRUCTURE NO. 34-C
STATION 894+38.15
BRIDGE NO. HE-281-170-A

DATA ON EXISTING STRUCTURE

Type: Concrete Slab Side road Culvert
Span: 8'-0" Height: 5.8 Roadway: 21'-9"
Condition: Fair To be removed.
Area of Waterway: 46.4 Sq.Ft. which is over size for its drainage area of 600 acres

DATA ON PROPOSED STRUCTURE

Type: Concrete Slab Top Culvert
Span: 7'-0" Height: 5'-0" Roadway: 30'-0"

GENERAL NOTES

Lap T2a bars a minimum of 24"
Chamfer all exposed edges 3/4"
Embankment shall be placed symmetrically on both sides of the culvert and shall not be placed until after slab culvert is in place.

Payment for pavement removal on side road included in price paid for Removal of Existing Structure and for Structure Excav(Unclassified)

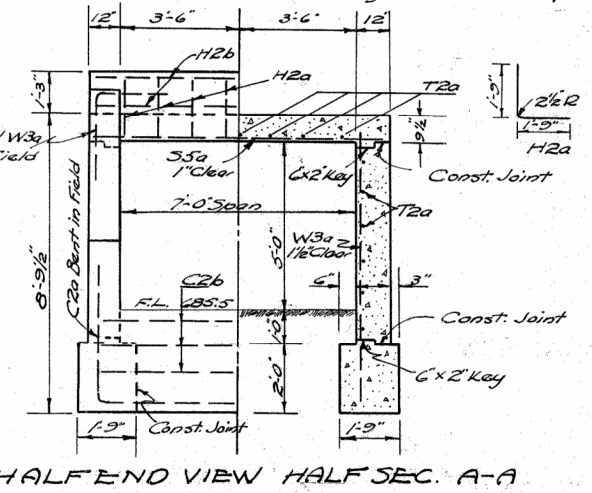
See Std Dwg. No. STC-34

REINFORCING STEEL LIST

Mark	Size	Spacing	Shape	Length	No.	Weight
S5a	3/4"ø	5 1/4" ctrs	Straight	8'-6"	74	945
T2a	1/2"ø	12"	Straight	31'-6"	19	400
T2b	1/2"ø	12"	Straight	19'-6"	24	313
H2a	1/2"ø	As Shown	Bent	3'-6"	16	37
H2b	1/2"ø	"	Straight	8'-6"	4	23
C2a	1/2"ø	"	Straight	16'-0"	2	21
C2b	1/2"ø	"	Straight	8'-0"	6	32
W3a	1/2"□	12" Ctrs	Straight	8'-0	120	816
		Total				2587
Rc2	1/2"ø	Replacement Steel		6'-0"	1	4
Rc3	1/2"□	"	"	6'-0"	1	5
Rc5	3/4"ø	"	"	7'-0"	1	11
Grand Total						2607

ESTIMATED QUANTITIES

Structure Excavation (Unclassified)	130	Cu.Yds
Removal of Existing Structure		Lump
Class 'E' Concrete for Structures-Footings	17.8	Cu.Yds
Class 'C' Concrete for Struct - Walls & Slab	37.4	Cu.Yds
Reinforcing Steel	2607	Lbs
Area of Pavement to be replaced = 40x14/9 =	62	Sq.Yds

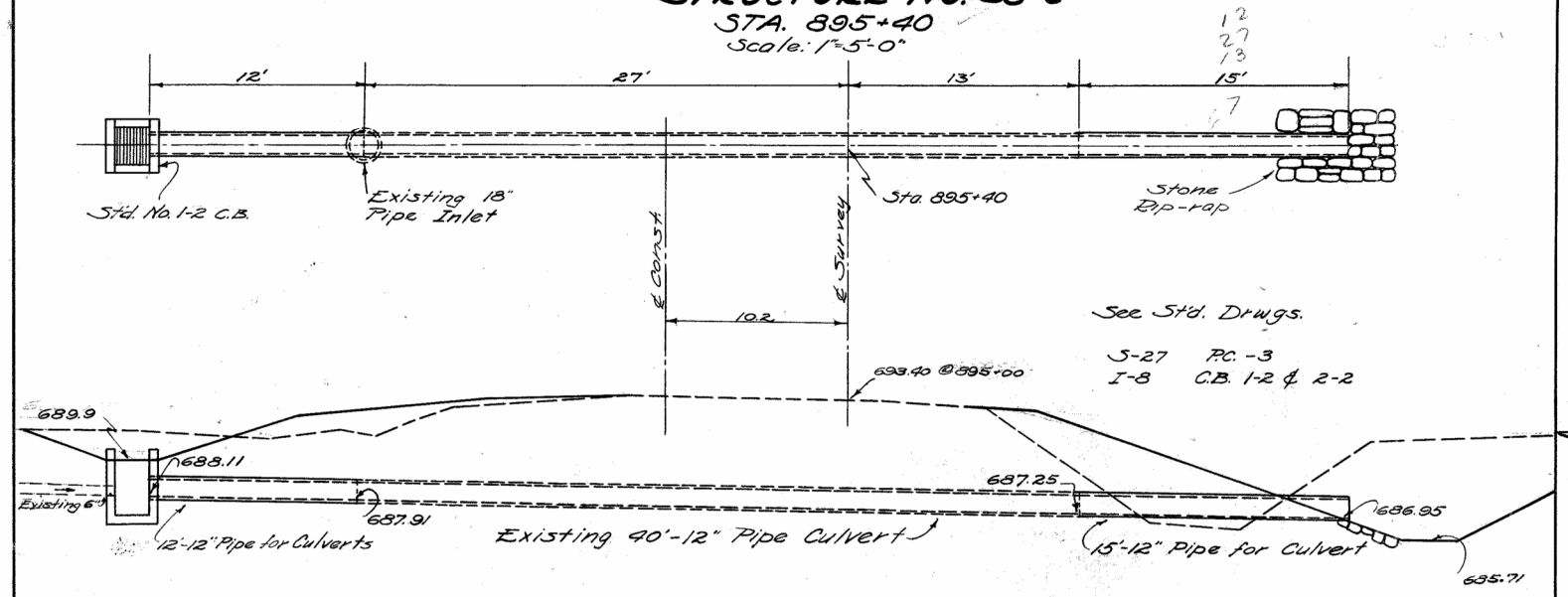


FED. RD. DIST. NO.	STATE	F.A.S. PROJECT	FISCAL YEAR
10	OHIO	F.A.S.-749-C(1) F.A.S.-749-A(2)	1940

84/104

HENRY COUNTY
S.H.591 SEC. A, B & C.
WOOD COUNTY
S.H.591 SEC. D & CUSTAR (PT.

STRUCTURE NO. 35-C
STA. 895+40
Scale: 1"=5'-0"



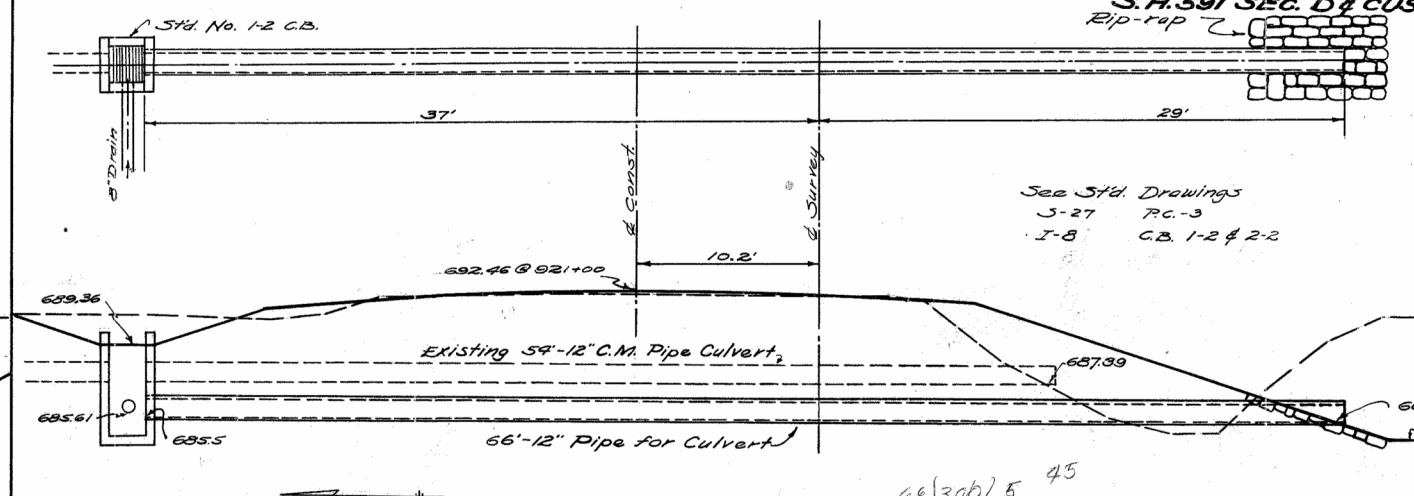
See Std. Drwgs.
S-27 P.C.-3
I-8 C.B. 1-2 & 2-2

WORK REQUIRED
Extend existing culvert with 27'-12" pipe for culverts. Construct Std. No. 1-2 Catch Basin on left and place rip-rap as shown. Remove existing inlet. Make all connections.

ESTIMATED QUANTITIES

Structure Excavation-Uncl.	8 Cu. Yds.
12" Pipe for Culverts	27 Lin. Ft.
Std. No. 1-2 Catch Basin	1 Each
Removal & disposal of existing inlet	1 Each
Rip-rap - Type "A" - Grouted	4 Sq. Yds.

STRUCTURE NO. 37-C
STA. 920+60
Scale: 1"=5'-0"



See Std. Drawings
S-27 P.C.-3
I-8 C.B. 1-2 & 2-2

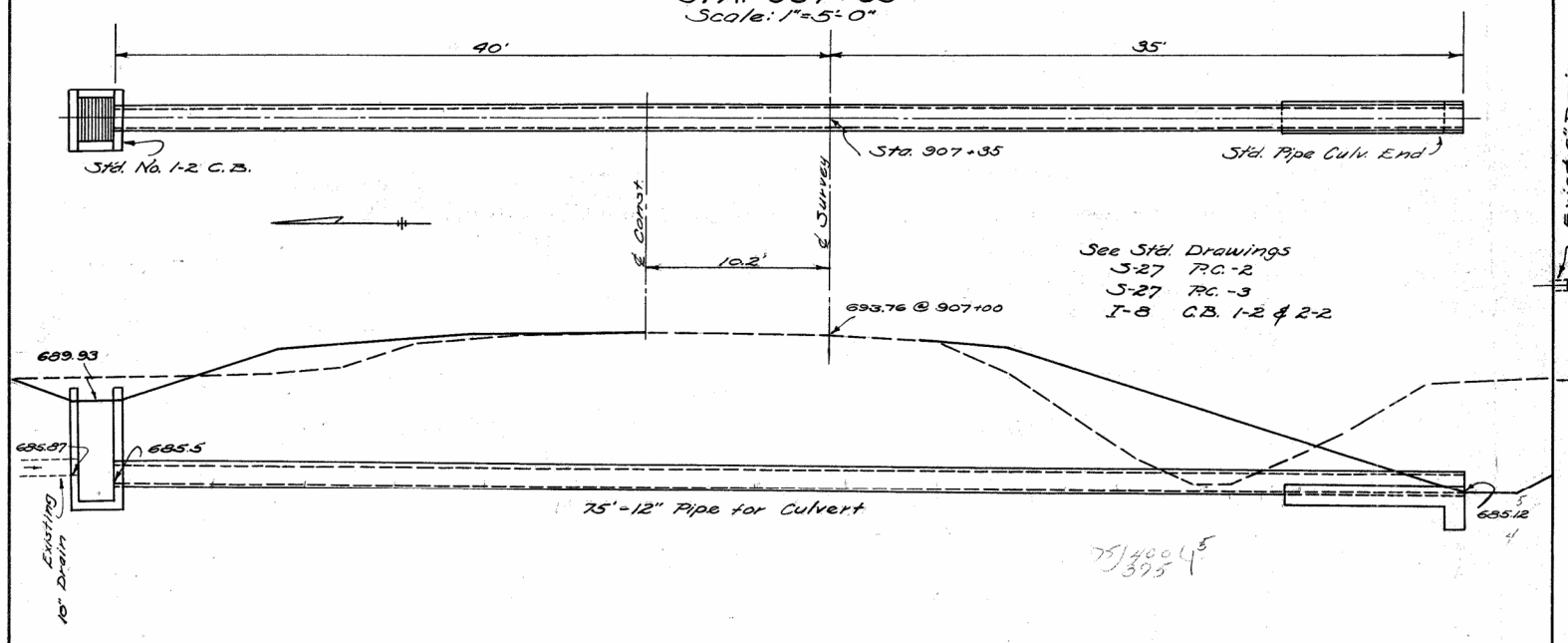
66/300/5 45
330
264
360
330

WORK REQUIRED
Remove and store existing 54'-12" C.M. Pipe culvert. Construct 12" Pipe Culvert with Std. No. 1-2 Catch Basin. Place rip-rap as shown. Make all connections

ESTIMATED QUANTITIES

Structure Excavation-Unclassified	18 Cu. Yds.
12" Pipe for Culverts	66 Lin. Ft.
Std. No. 1-2 Catch Basin	1 Each
12" C.M. Pipe - Removed & Stored	54 Lin. Ft.
Rip-rap - Type "A" - Grouted	4 Sq. Yds.

STRUCTURE NO. 36-C
STA. 907+35
Scale: 1"=5'-0"



See Std. Drawings
S-27 P.C.-2
S-27 P.C.-3
I-8 C.B. 1-2 & 2-2

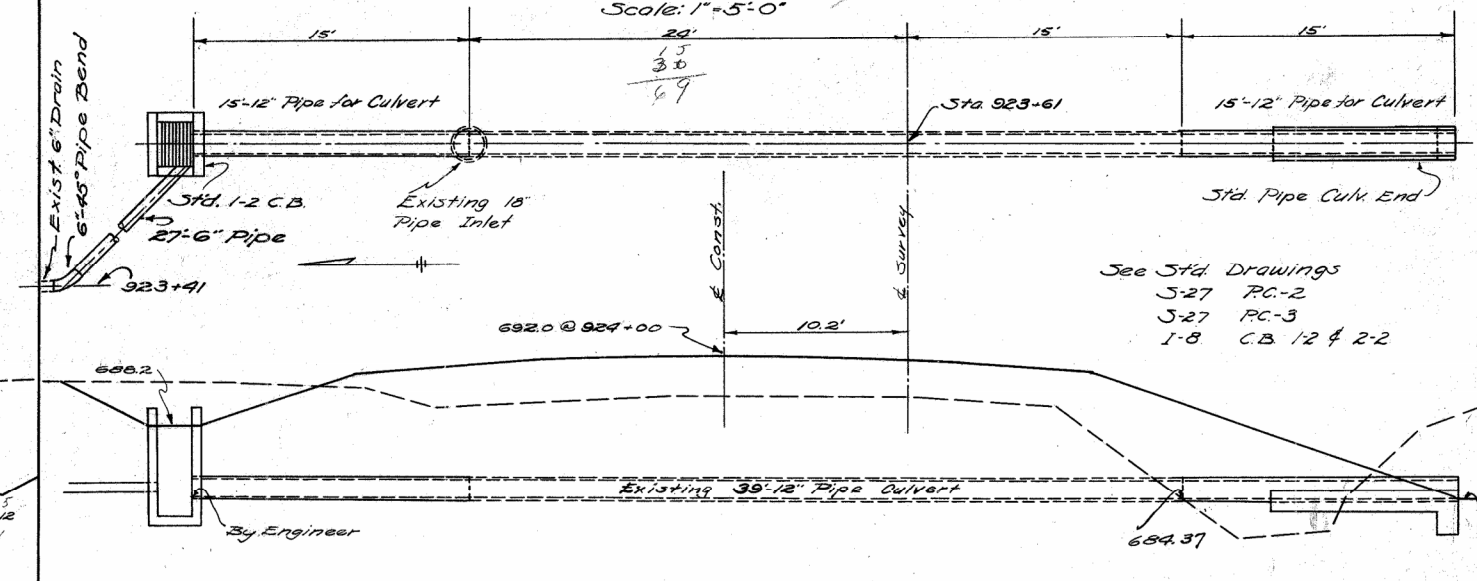
75/400/5
375

WORK REQUIRED
Construct 12" Pipe Culvert with Std. No. 1-2 Catch Basin on left and Std. Pipe Culvert on right. Make all connections.

ESTIMATED QUANTITIES

Structure Excavation-Uncl.	55 Cu. Yds.
12" Pipe for Culverts	75 Lin. Ft.
Std. No. 1-2 Catch Basin	1 Each
Concrete Class "C" for Pipe End	0.6 Cu. Yds.

STRUCTURE NO. 39-C
STA. 923+61
Scale: 1"=5'-0"



See Std. Drawings
S-27 P.C.-2
S-27 P.C.-3
I-8 C.B. 1-2 & 2-2

13
30
69

WORK REQUIRED
Extend present culvert with 30' 12" Pipe for Culverts. Construct Std. No. 1-2 Catch Basin and Std. Pipe Culvert End. Remove and dispose of existing inlet. Place 6" pipe for Rdwy. Drainage to connect existing 6" drain into Catch Basin on left.

ESTIMATED QUANTITIES

Structure Excavation-Uncl.	14 Cu. Yds.
12" Pipe for Culverts	30 Lin. Ft.
Std. No. 1-2 Catch Basin	1 Each
Concrete Class "C" for Std. Pipe End	0.6 Cu. Yds.
Removal & Disposal of existing inlet	1 Each
6" Pipe for Rdwy. Drainage	27 Lin. Ft.
6"-45° Bend (Pipe Special) for Rdwy. Drainage	1 Each